

Release notes for ENDF/B Development n-056\_Ba\_134  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5637, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5637, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 261 TO 313
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5637, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5637, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 261
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5637, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 315
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 480
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 505
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 530
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 546
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 556

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 562

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 576

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 587

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 603

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 618

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 632

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 55 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 55  
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 645

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 56 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 56 | RECORD NUMBER | 658 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 57 | RECORD NUMBER | 670 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 58 | RECORD NUMBER | 682 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 59 | RECORD NUMBER | 693 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 60 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 60 | RECORD NUMBER | 704 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 61 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 61 | RECORD NUMBER | 715 |
| SECTION 3/ 61 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 62 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 62 | RECORD NUMBER | 725 |
| SECTION 3/ 62 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 63 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 63 | RECORD NUMBER | 735 |
| SECTION 3/ 63 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT= 91 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT= 91 | RECORD NUMBER | 745 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT=102 | RECORD NUMBER | 754 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT=103 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT=103 | RECORD NUMBER | 775 |
| SECTION 3/103 NOT IN DIRECTORY            |               |     |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT=104 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT=104 | RECORD NUMBER | 790 |
| SECTION 3/104 NOT IN DIRECTORY            |               |     |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT=105 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT=105 | RECORD NUMBER | 803 |
| SECTION 3/105 NOT IN DIRECTORY            |               |     |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 3, MT=107 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 3, MT=107 | RECORD NUMBER | 813 |
| SECTION 3/107 NOT IN DIRECTORY            |               |     |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 2 (0): Directory (b)*
- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 2 | RECORD NUMBER | 830 |
| SECTION 4/ 2 NOT IN DIRECTORY            |               |     |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 16 | RECORD NUMBER | 1016 |
| SECTION 4/ 16 NOT IN DIRECTORY            |               |      |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 17 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 17 |                    |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1027 |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 22 |                    |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER 1038 |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 28 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 28 |                    |
|  | SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER 1049 |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 51 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 51 |                    |
|  | SECTION 4/ 51 NOT IN DIRECTORY            | RECORD NUMBER 1060 |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 52 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 52 |                    |
|  | SECTION 4/ 52 NOT IN DIRECTORY            | RECORD NUMBER 1177 |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 53 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 53 |                    |
|  | SECTION 4/ 53 NOT IN DIRECTORY            | RECORD NUMBER 1202 |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 54 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 54 |                    |
|  | SECTION 4/ 54 NOT IN DIRECTORY            | RECORD NUMBER 1227 |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 55 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 55 |                    |
|  | SECTION 4/ 55 NOT IN DIRECTORY            | RECORD NUMBER 1252 |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 56 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 56 | RECORD NUMBER | 1277 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 57 | RECORD NUMBER | 1302 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 58 | RECORD NUMBER | 1326 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 59 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 59 | RECORD NUMBER | 1350 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 60 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 60 | RECORD NUMBER | 1374 |
| SECTION 4/ 60 NOT IN DIRECTORY            |               |      |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 61 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 61 | RECORD NUMBER | 1451 |
| SECTION 4/ 61 NOT IN DIRECTORY            |               |      |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 62 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 62 | RECORD NUMBER | 1475 |
| SECTION 4/ 62 NOT IN DIRECTORY            |               |      |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 63 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 63 | RECORD NUMBER | 1499 |
| SECTION 4/ 63 NOT IN DIRECTORY            |               |      |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 4, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 4, MT= 91  
SECTION 4/ 91 NOT IN DIRECTORY RECORD NUMBER 1523

48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 5, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 5, MT= 16  
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 1548

49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 5, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 5, MT= 17  
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 1611

50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 5, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 5, MT= 22  
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1635

51. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 5, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 5, MT= 28  
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1865

52. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5637, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5637, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1976

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 134. L = 0 / STRENGTH FUNCTION IS 1.39812E-04 / STRENGTH FUNCTION 1.39812E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ISOTOPE MASS = 134. L = 0  
STRENGTH FUNCTION IS 1.39812E-04  
STRENGTH FUNCTION 1.39812E-04  
... [1 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 8.99992E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*



FILE 2  
SECTION 151  
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05  
STRENGTH FUNCTION 8.99992E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [2 more lines]

3. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 9.00000E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05  
STRENGTH FUNCTION 9.00000E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [1 more lines]

4. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 9.00033E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05  
STRENGTH FUNCTION 9.00033E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

5. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 9.00004E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05  
STRENGTH FUNCTION 9.00004E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [1 more lines]

6. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 9.00013E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05  
STRENGTH FUNCTION 9.00013E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

7. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 8.99991E-05 / LIES OUTSIDE LIMITS*

*1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05
STRENGTH FUNCTION 8.99991E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

8. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05 / STRENGTH FUNCTION 9.00005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99992E-05
STRENGTH FUNCTION 9.00005E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

9. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 8.99952E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 8.99952E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
... [2 more lines]
```

10. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 9.00041E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 9.00041E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

11. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 9.00033E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 9.00033E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

12. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 8.99966E-05 / LIES OUTSIDE LIMITS*

*1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 8.99966E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

13. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 9.00009E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 9.00009E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

... [2 more lines]

14. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 9.00043E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 9.00043E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

15. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05 / STRENGTH FUNCTION 9.00028E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.99952E-05
STRENGTH FUNCTION 9.00028E-05
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
```

- groupie Errors:

1. Very small elastic cross section found  
*0: Small elastic*

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

-----  
ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): missingResonanceChannel*

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"  
 WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.53%

3. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 1: (z,n) (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.13%

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.  
*reaction label 15: n[multiplicity:'2'] + Ba133 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9659762.419174194 eV vs -9.4751e6 eV!

2. Calculated and tabulated Q values disagree.  
*reaction label 16: n[multiplicity:'3'] + Ba132 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -16849698.31840515 eV vs -1.66672e7 eV!

3. Calculated and tabulated Q values disagree.  
*reaction label 17: n + H1 + Cs133 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8359916.810653687 eV vs -8172640. eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 18: Ba135 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 6779924.959838867 eV vs 6973390. eV!

5. Calculated and tabulated Q values disagree.  
*reaction label 19: n + He4 + Xe130 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1685107.198196411 eV vs -1.5088e6 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 20: H1 + Cs134-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1468376.645935059 eV vs -1276540. eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 21: H2 + Cs133-s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6135350.709716797 eV vs -5862520. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 22: H3 + Cs132\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8864467.882751465 eV vs -8667460. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 23: He4 + Xe131\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 4919707.920913696 eV vs 5.1072e6 eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided